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	Application No.	Applicant(s)	7	
Notice of Allowability	10/707,289	VOLDMAN ET AL.	VOLDMAN ET AL.	
	Examiner	Art Unit		
	Vikki H. Trinh	2814		
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS In herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in (IS) or other appropriate community (IS) application is s	n this application. If not include unication will be mailed in due	led e course. THIS	
1. This communication is responsive to <u>06/09/05</u> .			•	
2. The allowed claim(s) is/are 3-11.				
3. The drawings filed on 12/03/03 are accepted by the Exa	miner.			
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents had 2. Certified copies of the priority documents had 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ave been received. ave been received in Application documents have been received	on No In this national stage applica		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subsequenced.	NMENT of this application.			
[NFORMAL PATENT APPLICATION (PTO-152) which g			NOTICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") medical control including changes required by the Notice of Draftsperior (a) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date 	erson's Patent Drawing Reviev —·			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		,	e back) of	
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN			Note the	
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948)		formal Patent Application (PT	O-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948	,	ummary (PTO-413), Mail Date		
3. Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date		Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit	t 8. □ Fxaminer's	Statement of Reasons for Alle	owance	

of Biological Material

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Friedman on June 20, 2005.

The application has been amended as follows:

Claims 12-20 have been canceled.

- 2. Claims 3-11 are allowed.
- The following is an examiner's statement of reasons for allowance: The prior art of 3. record does not disclose or fairly suggest either in singly or in combination a structure having a third semiconductor layer of a second dopant type a bottom surface of the third semiconductor layer in direct physical contact with said top surface of said first semiconductor layer and extending in a direction perpendicular to said top surface of said substrate into said second semiconductor layer, said second layer further electrically modulated by said third semiconductor layer, and other elements in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Vikki Trinh whose telephone number is (571) 272-1719. The Examiner can normally be reached from Monday-Friday, 9:00 AM - 5:30 PM Eastern Time. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Wael Fahmy, can be reached at (571) 272-1705. The office fax number is 703-872-9306.

Any request for information regarding to the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Also, status information for published applications may be obtained from either Private PAIR or Public Pair. In addition, status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. If you have questions pertaining to the Private PAIR system, please contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Lastly, paper copies of cited U.S. patents and U.S. patent application publications will cease to be mailed to applicants with Office actions as of June 2004. Paper copies of foreign patents and non-patent literature will continue to be included with office actions. These cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at http://www.uspto.gov/ebc/index.html or 1-866-217-9197 for information on this policy. Requests

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to restart a period for response due to a missing U.S. patent or patent application publications will not be granted.

Vikki Trinh, Patent Examiner AU 2814

PRIMARY EXAMINER